

Inspiration Cot

SIDHIL



Electrically Operated Variable Height Children's Cot
User Instructions

Thank you for choosing a Sidhil Inspiration Cot. This user manual should be read carefully before you use your cot as it contains important information regarding safe operation and maintenance in order to provide long lasting and reliable service.

Please ensure that you understand all the instructions, if you have any questions concerning the operation and maintenance of the cot please contact your supplier who will provide you with expert professional advice.

In line with our policy of continuous improvement we welcome any suggestions that could lead to product improvement.

This product is manufactured to comply with the essential requirements of the Medical Devices Directive 93/42 EEC



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1. User Warnings

Warnings in these user instructions identify possible hazards and/or conditions which should be followed at all times. Failure to do so could result in serious injury or even death.

WARNING

Children must not be allowed to play with the controls.

Children must not play with any moving parts of the cot and should be kept away from the side rails when raising/lowering them at all times.

Electrically operated cots should not be used in operating theatres.

Accessories that have not been approved for use with the cot should not be used.

Misused electrical equipment can be hazardous.

2. Introduction

Your Inspiration Cot is suitable for children of high dependency and those who are a moving and handling risk. To aid the carer the cot is adjustable with a simple touch button handset.

The cot is designed to support a load of up to:

- 160kg (25 stone) when the mattress platform is flat**
- 50kg (8 stone) when in tilt**

These total weights should not be exceeded

Features:

- Electrically operated two way tilting mattress platform
- Electrically operated height adjustment
- Battery backup system
- Manual CPR function (optional extra)
- Anti trap mechanism on the mattress platform
- Drop down telescopic side rails
- Anti static castors with steering and braking function
- Removable head and foot ends
- Fold away storage shelf

3. Parts Identification

- 1 Removable head / foot end
- 2 Side rail
- 3 Side rail release button
- 4 CPR mechanism (optional extra)
- 5 Mattress platform
- 6 Anti static castor
- 7 Break pedal
- 8 CPR activation handle (optional extra)
- 9 Fold down shelf
- 10 Height adjustment actuator – under base chassis (not shown)
- 11 Tilt actuators – under mattress platform (not shown)
- 12 Control box - under mattress platform (not shown)



4. Installation and Preparing for use

Your Inspiration Cot comes fully assembled and ready for use. Simply remove any packaging and connect the mains cable to an appropriate mains socket outlet.

WARNING

**Ensure that the mains cable is not in tension
when connected to the power supply.**

**Ensure that all cables and handsets are clear of
any moving parts on the cot to prevent them from becoming
tangled or damaged.**

Note: The cot must only be used with a mains supply of 240V, 50Hz. If this product is to be used outside of the UK seek professional advice as to the compatibility of this product with the mains power supply type.

5. Operating the Inspiration Cot

General Safety

When the cot is operated, ensure that ancillary equipment and general furniture is not in the way.

Check that all electrical cables are free from tension and are positioned so as to avoid both patient and carer accidents.

Ensure that the mattress used is of correct size and type. A range of dynamic and static pressure relieving/reducing mattresses are available from Sidhil Ltd.

Ensure that the patient is positioned appropriately within the cot and ensure that they are aware in advance of each action taking place.

The cot's braking system should always be engaged when not in motion.

Ensure these user instructions are kept in a safe place at all times. Additional copies are available from Sidhil Ltd and via the internet at www.sidhil.com.

6. Electrics

i) Handset

The handset is designed to be used by the carer only. The mattress platform can be tilted from either the head or foot end and the cot height is adjustable. To adjust the position of the cot, depress the relevant button until the desired point has been reached and then release the button.

Head End Tilt - To raise the head end depress

To lower the head end depress

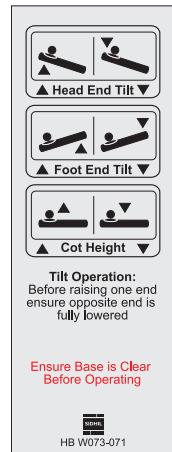


Foot End Tilt - To raise the foot end depress

To lower the foot end depress

Cot Height - To raise the cot depress

To lower the cot depress



Note: When putting the mattress platform into tilt it is only possible to have one end in tilt at any one time. Before raising one end ensure that the opposite end is fully lowered.

ii) Battery Backup

A battery backup feature will automatically be engaged when the bed is disconnected from the mains supply. This allows emergency or temporary operation of the cot for a limited period but will vary depending on the features used. If operated using the battery backup an alarm will sound when the battery level becomes low.

The cot should remain connected to the mains supply at all times for normal use, to ensure that the batteries remain fully charged. This will also prolong the life of the batteries.

iii) Resetting / Initialising the Electrical System

- Press and hold both hi/low buttons on the handset together.
- An audible alarm will be heard for approximately 5 seconds.
- When the alarm stops sounding release the buttons and drive the cot up to its maximum height.
- When at maximum height re-press the up button again.
- The cot is now reset and will work correctly.

7. Emergency Mechanical CPR Function

(Optional Accessory)

The mattress platform can be levelled by pulling a handle found at the foot end of the cot. There is one lever to activate the foot end and another for the head end, found to either side of the shelf.

Note: The foot end is signified by the end with the shelf and the head end by the drip pole sockets

i) CPR Operation

To operate the mechanical CPR, pull the lever that is applicable to the raised end of the mattress platform. If the foot end is raised the CPR handle that states 'CPR – foot' must be pulled and vice versa for the handle that states 'CPR – head'. **If there is any doubt as to which handle should be pulled it is advised that both handles be pulled at the same time.**

Note: The CPR function only flattens the mattress platform.



ii) Resetting the CPR

Once the CPR has been activated the system must be reset. **If it is not reset the mattress platform will fail to operate correctly.** Depending on which end has been activated the head/foot end tilt down button must be pressed for 25 seconds to reset the system. If the foot end cpr lever has been pulled, the foot end down button  must be held down for 25 seconds and if the head end lever is activated the head end down button  should be pressed. When the system has reset, the handle will drop back to its original position and the mattress platform is ready for use again.

WARNING

When operating the manual CPR function ensure that all limbs/hands and equipment are clear in order to prevent trapping or injury.

Ensure the correct handle is pulled, if unsure pull both.

Following CPR activation, if the system is not reset the mattress platform will not operate correctly.

8. Braking & Steering

There are two linked brake pedals at the foot end of the cot which control all the castors simultaneously.

- When the pedal is in the 'steer' position it locks one castor on the cot so that it cannot swivel. This allows the cot to be steered when being pushed from the head end of the cot.



- When the pedal is in the 'free' position no castors are locked allowing all to swivel freely.



- When the pedal is in the 'brake' position three castors are locked and the cot then cannot move.

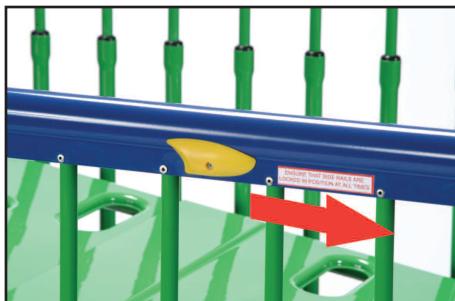


9. Side Rails

Your cot comes complete with two integral telescoping side rails which can be locked in position at six different heights. When the side rail is fully down it provides the carer with complete access to the mattress platform regardless of the cot height.

i) Adjusting the Side Rail Height

Release the side rail by gently sliding the two yellow buttons outwards, this disengages the locking mechanism. While holding the buttons out gently lower/raise the side rail into the desired position and release the buttons. **Ensure that the side rail has locked in position at both ends.**



WARNING

When operating the side rails ensure that they are free from obstruction to prevent injury / entrapment.

Ensure that the side rails are locked in position at all times.

Ensure that the occupant is away from the sides of the cot and cannot fall when adjusting the mattress platform position, if the side rails are in the lowest position.

10. Shelf

To raise the shelf, squeeze both spring loaded release handles, these are situated to the shelf underside on the left and right hand sides. Lift the shelf until it is level, once in position release the handles and ensure that the handles have locked in position.

To fold the shelf down, squeeze both release handles and gently lower it down.



11. Head and Foot Ends

Your cot comes with removable head and foot ends, allowing for four sided carer access to the mattress platform. To remove the ends simply lift the frame out of the location tubes.

The head and foot ends can also be specified to have a break in and out section (optional extra) allowing for tube access to the patient, whilst keeping the ends in position. To position the tubes through the gap in the head/foot end, lift the green latch, position the tubes through the gap and then re-close the latch.



12. Transfusion Pole (Optional Extra)

The safe working load of the transfusion pole is 10kg, however no more than 3kg should be hung from each hook. The pole should be inserted into one of the sockets found to the head end of the mattress platform and the handwheel tightened.



13. Do's & Don'ts

- Do** ensure you read these instructions and fully understand them before using the cot.
- Do** ensure the cot is cleaned on a regular basis.
- Do** ensure the cot is inspected on a regular basis (minimum once yearly service).
- Do** ensure that all the control plugs are pushed home firmly.
- Do** ensure the mains lead is plugged into the mains supply.
- Do Not** exceed the safe working load of **160kg** (25 stone) when the mattress platform is flat and **50kg** (8 stone) when in tilt.
- Do Not** store any items under the cot.
- Do Not** allow children to play with or under the cot.
- Do Not** use the cot if the actuators make any unusual noises, smells or become excessively hot.
- Do Not** allow any part of the cot or mattress to come into contact with any naked flame or excessive heat sources.

14. Cleaning Procedure

i) Biocote



Your cot comes with an antibacterial additive incorporated into the powder coated metalwork. Biocote™ inhibits the growth of bacteria on the surface of the cot frame. It is effective against a wide range of both gram positive and negative bacteria as well as fungi. Examples of bacteria that Biocote™ is resistant to include:

Bacillus Subtilis
Escherichia Coli 0157
Salmonella Enteritidis

Staphylococcus Aureus (MRSA)
Streptococcus Faecalis
Listeria Monocytogenes



Biocote™ is an aid to keeping your cot infection free but it does not substitute the need for the cot to be cleaned at regular intervals.

ii) Cleaning

All surfaces to be wiped down with a soft cloth moistened with a mild detergent (or the hospital's recommended cleaning solution) and diluted in hot water. Extra care should be taken around areas where excess dirt or dust may gather. Rinse down with clean water and dry off with a paper towel.

If any infectious material(s) have been in contact with the bed or it has been used by a patient with a known infection, the above procedure should be followed by an additional clean with NaDCC (Presept, Actichlor) at 10,000 PPM of Chlorine (or instructions as prescribed by manufacturer). Rinse and dry again.

Always ensure that cleaned parts are allowed to dry before putting the mattress back in place.

WARNING

Disconnect the cot from the mains power supply before cleaning.

Ensure that the handset is plugged in to avoid water ingress into terminals.

15. Maintenance Procedure

Only authorised Sidhil service personnel, or approved service agents, should carry out repairs or service activities. Failure to do so may result in the manufacturer's warranty becoming void.

If a fault does occur please try the following suggestions before calling your supplier for assistance, as these may help in diagnosing the fault.

Fault Diagnosis

In the event that the user experiences problems operating the cot the following checks should be carried out initially:

General

- Check that the cot is free of any obstructions.
- Check that the maximum load has not been exceeded.
- Check that the CPR has not been activated and the system not reset.
- Check that the cot has not reached its maximum or minimum height.
- Check that the cot is plugged into the mains supply.

Partial Electrical Failure

- If the cot only has certain functions working or it operates very slowly the cot may be working off the battery backup facility. Check the 'power on' light on the bottom of the control box (located under the mattress platform) is lit. If off the cot is running off the battery backup facility. Make sure the cot is plugged into the mains supply.

Disconnect the cot from the mains supply, then:

- Check that the handset is correctly plugged in and that none of the plug pins are bent or damaged – try another handset if available (ensure control box is unplugged when swapping handset.)
- Check that the actuator controlling the required function is fully plugged in.
- Check that the mains lead is pushed fully into the control box and is not damaged.
- Check that the mains lead is connected to the mains supply.
- If none of the above work, keep the cot unplugged from the mains supply and contact your authorised service personnel or Sidhil Ltd. Do not use the cot until the problem has been resolved.

Total Electric Failure

Check that the green LED located on the bottom of the control box is lit. If off, check that the cot is plugged into the mains supply and switched on. If on, disconnect the cot from the mains supply, then:

- Check that all leads and cables are plugged in positively and correctly and that the red circular clip is locked in position over the mains lead control box plug.
- Check/replace the fuse in the mains plug.
- If none of the above work, keep the cot unplugged from the mains supply and contact your authorised service personnel or Sidhil Ltd. Do not use the cot until the problem has been resolved.

Sidhil recommends that every six months the following maintenance procedures should be carried out to help prolong the life of the cot:



General

Ensure that all fixings including nuts and bolts are tight and that none are missing or incomplete. Check that all cabling is in good condition, and that wear or abrasion has not caused any excessive bending, kinking or damage. Check that the mains cable plug is not damaged.

Should damage or deterioration occur to the mains cable or plug, they must be replaced by authorised service personnel or Sidhil Ltd. Under no circumstances should the plug be replaced by unauthorised personnel.

Braking

Position the brake pedal in the 'brake' position (see section 8 for brake operation). Now try to move the cot with a normal level of force. Should any of the three braked castors rotate/move, the brake system is not working effectively.

Position the 'brake' pedal in the 'steer' position and check that the steering lock is operating efficiently.

If you experience difficulty or lack of effectiveness with either the braking or steering contact your authorised service personnel or contact Sidhil Ltd.

Batteries

When the cot is being used via the battery backup facility the control box will sound an audible alarm when a low charge situation is reached. A minimum of 24 hours charging time should be allowed to fully recharge the batteries.

Sidhil recommends checking the condition of the batteries every six months.

16. Specification

Overall Length	1450mm
Overall Width	820mm
Height Range (To Top of Mattress Platform)	585mm to 920mm
Mattress Platform Tilt (Forward and Reverse)	0-12°
Maximum User Weight – When Not in Tilt When in Tilt	160kg 50kg
Voltage In	230V AC, ± 10, 50Hz
Current In	Max 3A
Voltage Out	24V DC, max 120VA
Batteries	2 x 12V Rechargeable
Duty Rating	Intermittent 10% (6mins/hour) 2 minutes of continuous use followed by 18 minutes not in use.
Electrical Safety Standards	Complies with EN 60601-1 (BS 5724: Part 1, IEC 601-1)
Electrical Shock Protection	Class I
EMC	Complies with BS EN60601-1-2
Liquid Ingress Protection	IP54



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